

COPPER PIPE

- Made in accordance with applicable regulations, with cleaned inside surfaces, phosphorous deoxidized, high residual phosphorous, annealed in coils.
- Minimum Cu $\geq 99.90\%$
- Phosphorous content = $0.015\% \div 0.040\%$
- **Approved to ASTM B280- Type ACR**
- Perfect for applications where high-pressure gases are used as refrigeration source.
- **ISOARMOR polymer coating to protect the copper from moisture, oxygen and VOCs**

INSULATION

- Low density closed cells polyethylene foam
- CFC and HCFC damaging-ozone gas free
- Made according to **ASTM C 1427-07**, type I (tubular), grade I (insulation material for use on typical commercial system non-cross-linked)
- Surface burning characteristics: **UL 94**, top rated for Surface Burning Characteristics – **UL 723** (Flame and Spread Index less than 25 and Smoke Development Index less than 50), **ASTM E84** (25/50) compliant and tested in accordance with **UL 746A** for Ignition Resistance.

SHEATH

- External **UV-resistant** LDPE foil covering which adheres to a non-flammable base, melts flameless belongs to self-extinguish Class.
- Marked progressively every foot with product details (pipe and insulation diameters) and production date & time.
- Excellent resistance to water vapor diffusion and substantial reduction of moisture on the outer surface of the pipe.
- Additional protection to foam insulation from tearing during installation process.
- EXTERIOR INSULATION MUST BE PROTECTED FROM EXTERIOR HAZARDS (ASHRAE 90.1-2013 & IECC- 2015)



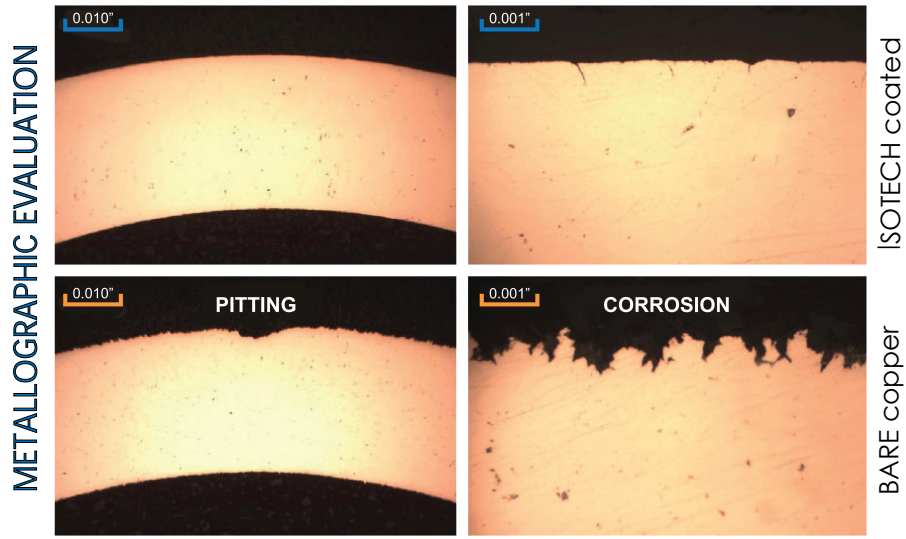
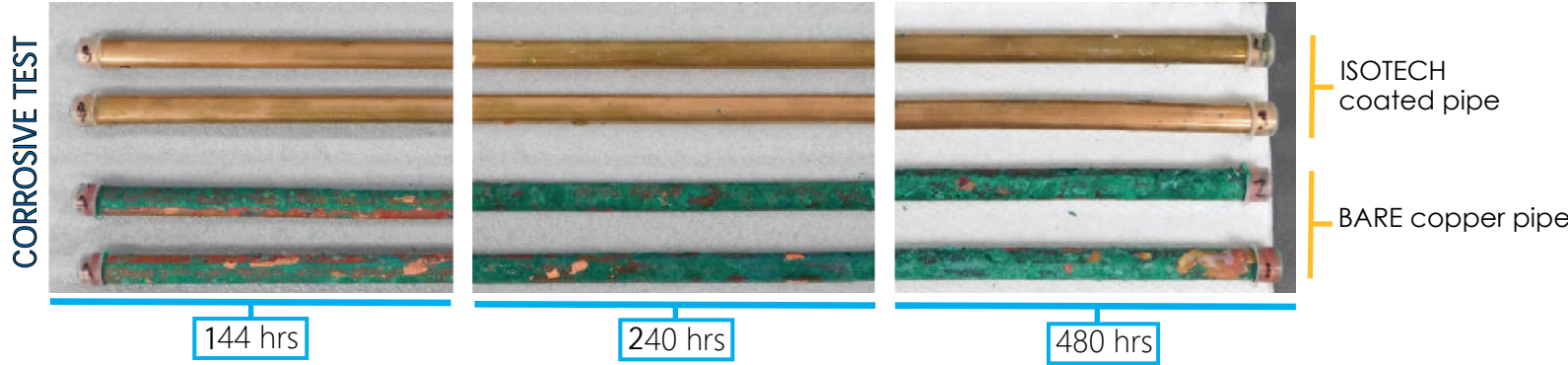
TECHNICAL DATA	
COPPER PIPE WALL THICKNESS	ASTM B280
INSULATION THICKNESS	1/2"
OPERATING TEMPERATURE RANGE	-112°F / 208°F (-80°C / +98°C)
COEFF. OF WATER VAPOR DISPERSION	5482 μ
THERMAL CONDUCTIVITY	0.0397 W. m ⁻¹ . K ⁻¹
INSULATION DENSITY	99 lbs/cubic ft (45 Kg/m ³)
FIRE RESISTANCE	Class 1 (self-extinguishing)
PACKAGING	Comes in single coils wrapped in clear film for added protection.

PART NUMBER	PIPE	INSULATION	LENGTH (FT)
ISOTECHUV14-12-50	1/4"	1/2"	50
ISOTECHUV38-12-50	3/8"	1/2"	50
ISOTECHUV12-12-50	1/2"	1/2"	50
ISOTECHUV58-12-50	5/8"	1/2"	50
ISOTECHUV34-12-50	3/4"	1/2"	50
ISOTECHUV78-12-50	7/8"	1/2"	50
ISOTECHUV14-12-164	1/4"	1/2"	164
ISOTECHUV38-12-164	3/8"	1/2"	164
ISOTECHUV12-12-164	1/2"	1/2"	164
ISOTECHUV58-12-164	5/8"	1/2"	164
ISOTECHUV34-12-82	3/4"	1/2"	82
ISOTECHUV78-12-82	7/8"	1/2"	82

Tested in accordance with
UL 94, UL 723A, UL 746A



Sets of ISOTECH and bare copper pipe samples were subjected to a 480-hrs laboratory test in a highly corrosive environment followed by a metallographic evaluation to compare the extent of corrosion. All tests performed in US.



Visual examination disclosed significant corrosion on the BARE samples. ISOTECH coated samples showed clean, non-corroded surfaces.

Metallographic examination confirmed the presence of corrosion pitting on the BARE sample while no corrosion was noted around the ISOTECH coated pipes.

